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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,303	11/18/2003	Richard Bernert	VOI0280.US	6927
7590	07/26/2005		EXAMINER	TADESSE, YEWEBDART
Todd T. Taylor Taylor & Aust, P.C. 142 S. Main Street P.O. Box 560 Avilla, IN 46755			ART UNIT	PAPER NUMBER
1734				
DATE MAILED: 07/26/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/716,303	BERNERT ET AL.
	Examiner Yewebdar T. Tadesse	Art Unit 1734

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 May 2005.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 12-14 is/are allowed.
- 6) Claim(s) 1-11 and 15-19 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 4-6, 15 and 18-19 are rejected under 35 U.S.C. 102(b) as being anticipated by JP2000-176344 (see Abstract and computer translated description of the invention).

As to claim 1, JP'344 discloses (see Figs 1and 3 and Abstract) a device for direct application of liquid onto a moving application surface (web) comprising an applicator (head 1) and a weakening device (member 21) located prior to the applicator as viewed in the direction of travel, the weakening device (21) removes a boundary of air adjacent to the web, the weakening device (member 21) including a blowing device (air blast means 23) located prior to the applicator as viewed in the direction of travel, producing an air flow in opposite direction to the conveyance direction (see paragraph 16), the blowing device including a blow nozzle (blowing slit 23a); and a suction device (air attraction means 24) for drawing in air.

With respect to claim 2, in JP'344 the material web is a paper web (see paragraph 1).

As to claims 4, JP'344 is cited for the same reasons described above for claim 1. Furthermore, in JP'344 the application surface (web 11) has first and second lateral

edges and JP'344 shows (see Fig. 3) blow box (23) capable of supplying air to both areas of the lateral edges.

With respect to claims 5-6, JP'344 is cited for the same reasons described above for claim 1. Additionally, in JP'344 a suction box (24) is capable of exhausting air in one of the area of the lateral edges. Moreover, the suction box (24) is capable of having a drive side edge (edges of the slit 24a).

As to claims 15 and 18, JP'344 discloses area subtended by the weakening device or area of the blow nozzle (23) wherein the area of the application surface takes on a curved progression (see Fig 1).

With respect to claim 19, in JP'344 the application surface is fed from below a point of contact of the coating medium on the application surface to the point of contact of the coating medium on the application surface (see Fig 1).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 7 and 17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP2000-176344. JP'344 is cited for the same reasons described above (see paragraph 2, claim 1 rejection), furthermore JP'344 device is capable of having support roll with claimed radius and a blowing device end arranged at a distance as claimed from a point of contact of the coating medium. Arranging the blowing device and a point of contact of the coating medium at a certain distance in-between; and sizing the radius of the support roll are design choices. One in the art would size the roller and arrange the blowing device in relation to the contact of the coating medium as claimed, depending the size or thickness of the material web. It would have been obvious to one of ordinary skill in the art at the time the invention was made to arrange the end of the blowing in relation to the contact of the coating medium at a distance of between 10 mm and 50mm; and the radius of the transfer roll between 300mm and 500mm depending the size or thickness of the web material processed.

6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP'344 as applied to claim 1 above and further in view of Hess et al (US 6,309,463). JP'344 lacks

teaching an indirect application of liquid onto a moving web having a transfer roll for transferring the coating medium onto the web. Hess et al teaches a device for direct or indirect application of liquid using a transfer roll (applicator roll 112) for transferring the coating medium to the surface of the material web (see Fig 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a transfer roll for transferring the coating medium to the web in JP'344 as desired.

7. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP'344 as applied to claim 1 above and further in view of Koskinen et al (US 6,106,902). JP'344 lacks teaching a blowing device including a baffle located at a predetermined distance from the application surface. Koskinen et al discloses (see column 7, lines 38-64) a baffle (doctor blade) arranged in the immediate vicinity of the spray-coater used to remove air film from the web surface. It would have been obvious to one of ordinary skill in the art at the time the invention was made to alternatively use a baffle arranged in the predetermined distance from the application surface in JP'344 to efficiently remove the air film traveling along with the web as taught by Koskinen et al. With respect to the length of the baffle subtending part of the application surface and the arrangement of the suction device in relation to the baffle or the blowing device, they are design choices. One in the art would size the baffle and arrange the suction device in relation to the baffle and the blowing device as claimed, depending the size or thickness of the material web. It would have been obvious to one of ordinary skill in the art at the time the invention was made to arrange the suction device relative to the

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baffle or blowing device at a distance of between 0 mm and 50mm; and the length of the baffle between 300mm and 500mm depending the size or thickness of the web material processed.

8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP'344 as applied to claim 1 above and further in view of Nissinen et al (US 2004/0074440). JP' lacks teaching a blowing device including slotted nozzle and a multitude of individual nozzles. Nissinen et al discloses (see paragraph 26) a blowing device including an air jet slot nozzle (18) and a plurality of air jet nozzles (17). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include an air jet slot nozzle and a plurality of jet nozzles in JP'344 to directly impinge the air at desired place and to prevent the accumulation of the web treatment substance on structures above the spray nozzles respectively as taught by Nissinen et al.

9. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP'344 as applied to claim 1 above and further in view of Kusterman (US 6,322,627). JP'344 discloses the area of application surface including a support roll (10) and a support belt (11), wherein the material is routed around one of the support roll and the support belt. JP'344 lacks teaching a support shoe to rout the web material. However, it is well known in the art to use a support shoe for disposing web material around it; for instance -Kusterman discloses support shoes (126) as a backing element in supporting the web material. It would have been obvious to one of ordinary skill in the art at the time the

invention was made to include a support shoe in JP'344 to prevent formation of wrinkles in the material web as taught by Kusterman (see column 1, lines 44-61).

Allowable Subject Matter

10. Claims 12-14 are allowed.

11. The following is an examiner's statement of reasons for allowance: (see reason of allowance cited on the action mailed 01/31/2005.)

Response to Arguments

12. Applicant's arguments of the art rejections filed 05/02/2005 have been fully considered but they are not persuasive. The examiner has withdrawn the 112 2nd paragraph rejection. Referring to the argument that JP'344 does not teach a blowing device turned in opposite direction, Fig 3 of JP'344 clearly shows a blowing device (23) turned in the opposite direction of the conveyance direction. Additionally, the examiner refers the applicants to the attached partial translation of paragraph 18 of JP'344, from USPTO Translation Branch, reciting that the blowing device including blowing slits 23a (nozzle) directed to the opposite direction of the transporting web 11. As such, JP'344 meets claim 1. As to the argument that JP' 344 does not disclose a first lateral edge and a second lateral edge (regarding claim 4), JP'344 web material (11) is considered to have edges (1st and 2nd, looking across the width of the web) and the blow boxes (23) is capable of supplying air in both an area of the 1st and 2nd lateral edges. It is noted

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that in the applicant's disclosure (see Fig 2) blowing device having two channels directs air to the edges of the web, however these features related to the blowing device are not recited in the rejected claims. Similarly, JP'344 meets the limitations of claim 5.

With respect to claims 7 and 17, as recited in the rejections above, the sizing of apparatus depends on the characteristics of the web, size, width, thickness and others. As such, JP'344 device is capable of having the distance and radius claimed.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yewebdar T. Tadesse whose telephone number is (571) 272-1238. The examiner can normally be reached on Monday-Friday 8:00 AM-4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


YTT


CURTIS MAYES
PRIMARY EXAMINER